## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

- 1.-16. (Cancelled)
- 17. (Previously Presented) A print robot for large format three-dimensional printing on a fixed surface, comprising an inkjet printing assembly, means for displacing and orientating this printing assembly along several axes, at least one control unit controlling these means and a drying device for the ink sprayed onto said surface, wherein said robot is a print robot with five motorized axes and wherein the displacement and orientation means comprise:
- a carrier with three degrees of freedom in translation, which ensures positioning of the printing assembly allowing its horizontal, vertical and depth translation,
- a wrist with two degrees of freedom in rotation which supports and ensures the orientation of the printing assembly allowing its rotations (Rx, Ry) along two perpendicular axes.
- 18. (Previously Presented) A robot as claimed in claim 17, wherein the carrier comprises:
- a first mobile carriage provided with a driving system moving on two horizontal rails,

- a beam fixed perpendicular to the first mobile carriage, a second mobile carriage provided with a driving system moving on two vertical rails mounted on this beam,
- a slide fixed perpendicular to the second mobile carriage, a mobile platform moving along this slide.
- 19. (Previously Presented) A robot as claimed in claim 17, wherein the wrist comprises two identical systems screws/rods/cranks each linked to a mobile carriage.
- 20. (Previously Presented) A robot as claimed in claim 19, wherein the wrist supports the ink drying device.
- 21. (Previously Presented) A robot as claimed in claim 20, comprising five servomotors respectively associated with the five axes of this robot.
- 22. (Previously Presented) A robot as claimed in claim 21, which as input comprises:
- several optical sensors to measure the distance between the printing assembly and the surface to be printed,
- five encoders for the motor axes to determine the displacement of the servomotors,
- two end-of-travel sensors and one start point sensor respectively associated with each axis of the robot.

- 23. (Previously Presented) A robot as claimed in claim 22, comprising a real-time control device which comprises:
  - a central unit module,
  - at least one module to control the axes,
  - a digital input-output module.
- 24. (Previously Presented) A robot as claimed in claim 23, comprising a general control device which includes:
  - a real-time control module,
  - a sensor signal interfacing/relay and packaging module,
  - a supply/instrumentation module,
  - a brake feed module,
  - a safety management module,
  - a ventilation assembly,
  - five digital motor speed controllers.
  - 25. (Previously Presented) A robot as claimed in claim 24, comprising:
  - a first computer terminal dedicated to control of the movements of this robot,
  - a second computer terminal dedicated to monitoring the robot, including:
  - coordination between displacement of the robot and the printing operation,
  - processing the digital image to be printed,
  - man-machine interfacing.

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26. (Previously Presented) A robot as claimed in claim 17, wherein the printing assembly comprises at least one printing block provided with several printing heads using inks of different colors.

- 27. (Previously Presented) A robot as claimed in claim 26, wherein each printing block comprises four printheads respectively using yellow, cyan, magenta and black inks.
- 28. (Previously Presented) A robot as claimed in claim 26, wherein the inks are ultraviolet drying inks.
- 29. (Currently Amended) A printing process using at least one robot as elaimed in claim 17, which after a prior step to digitize the image and divide it into strips of determined width, comprises the following steps:
- positioning a medium with respect to the robot(s) at least one robot as claimed in claim 17,
- initial setting of the robot(s) said at least one robot and positioning their heads its/their head(s) with respect to the surface of the medium, at the point where printing of the image is to start,
- printing the image on said surface with successive printing of the different vertical strips forming the image,
  - return to a rest configuration.

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30. (Previously Presented) A process as claimed in claim 29, which comprises a prior surface preparation step so as to make it clean and uniformly white.

- 31. (Previously Presented) A process as claimed in claim 29, wherein printing starts at the lower left-hand corner of the surface.
- 32. (Previously Presented) A process as claimed in claim 29, wherein the width of the vertical strips is approximately 7 cm.